

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-017843**Date Inspected:** 14-Oct-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** ZPMC and ABF**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG 13 section**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector Mr. Wai Pau, was present during the times noted above for observations relative to the work being performed.

Caltrans QA Inspector observed two welders performed a FCAW fillet weld process on stiffener plates. The stiffener weld is designed a T-joint with size 6mm and 8mm fillet weld welded on stiffener to anchor plate of OBG east line lift #14E . The angle plate ID is AP3002 and AP3009, The region of the weld joint has been pre-heating to specific desired temperature prior FCAW welding. The parameters used for the FCAW welding of stiffeners were conducted in accordance with Caltrans approved WPS. The FCAW process was monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QAI observations, no discrepancies were noted.

Caltrans QA inspector observed a ZPMC welder performed FCAW CJP weld process on stiffeners of OBG "V" plate (VP). The weld is designed T-joint CJP weld stiffeners to plate. The "V" plate ID is VP3007 and VP3009 of east line lift 13CE. The region of the weld joint has been pre-heating to specific desired temperature prior FCAW welding. The FCAW process were monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QA Inspector observations, no discrepancies were noted.

Caltrans QA Inspector observed a welding operator in process of semi-automatic SAW on CJP weld. The CJP weld is connected between two U-rib deck panels (DP) of lift #13CW. The weld number and plate number are SA3232-003/DP3152A to DP3151A. The region of the weld joint has been pre-heating to specific desired temperature prior SAW welding. The parameters used for the CJP welding of the deck panel were conducted in accordance with Caltrans approved WPS. The SAW process were monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QA Inspector observations, no discrepancies were noted.

Caltrans QA Inspector observed two ZPMC welders performed FCAW fillet weld process on interior diaphragms of CA3016A for lift #13W. The weld joint is T joint welded with size 10mm fillet weld. The region of the weld

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## WELDING INSPECTION REPORT

( Continued Page 2 of 2 )

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joint has been pre-heating to specific desired temperature prior FCAW welding. The FCAW process were monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QA Inspector observations, no discrepancies were noted.

### CLOSING STATEMENT

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

As notes within report above

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact James Devey 15000026784 , who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Pau, Wai	Quality Assurance Inspector
<b>Reviewed By:</b>	Patterson, Rodney	QA Reviewer

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